

**SYSTEM AND METHOD FOR
DEMODULATING ASSOCIATED INFORMATION CHANNELS
IN DIRECT SEQUENCE SPREAD SPECTRUM
COMMUNICATIONS**

ABSTRACT OF THE INVENTION

A Direct Sequence Spread Spectrum (DSSS) receiver system (100) combines and orders the soft symbols from associated information channels. The system permits a QPSK channel to be demodulated as a pair of BPSK channels, and the soft symbols of the demodulated BPSK channels to be multiplexed into a single information channel. The receiver system (100) includes a plurality of demodulating fingers (102-106). Each demodulating finger accepts modulation parameters and a sample stream, while supplying soft symbols with indexing information so that information channels can be subsequently multiplexed into a single information channel. A method for ordering the soft symbols of associated information channels in a DSSS system is also provided.